Cold Weather Casualties and Injuries Chart

■ Train soldiers on the proper use of cold weather clothing

■ Remember the acronym C-O-L-D when wearing clothing in cold weather
(C: keep it Clean; O: avoid Overdressing; L: wear clothing Loose and in layers; D: keep clothing Dry)

■ Maintain adequate hydration and ensure nutritional requirements are met

		Cold Weather Casualties and Injuries Chilblain	
Cause	Symptoms	First-Aid	Prevention
■ Repeated exposure of bare skin for prolonged periods from 20°-60°F with high humidity (for those not acclimated to cold weather).	■ Swollen, red skin (or darkening of the skin in dark-skinned soldiers). ■ Tender, hot skin, usually accompanied by itching.	■ Warm affected area with direct body heat. ■ Do not massage or rub affected areas. ■ Do not wet the area or rub it with snow or ice. ■ Do not expose affected area to open fire, stove, or any other intense heat source.	■ Use contact gloves to handle all equipment; never use bare hands to handle equipment, especially metal. ■ Use approved gloves to handle all fuel and POL* products. ■ In the extreme cold environment, do not remove clothing immediately after heavy exertion (PT); until you are in a warmer location. ■ Never wear cotton clothing in the col weather environment.
		Immersion foot (trench foot)	
Cause	Symptoms	First-Aid	Prevention
■ Prolonged exposure of feet to wet conditions 32°-60°F. Inactivity and damp socks and boots (or tightly laced boots that impair circulation) speed onset and severity.	<ul> <li>■ Cold, numb feet may progress to hot with shooting pains.</li> <li>■ Swelling, redness, and bleeding.</li> </ul>	■ If you suspect trench foot, get medical help immediately! ■ Re-warm feet by exposing them to warm air. ■ Do not allow victim to walk on injury. ■ Evacuate victim to a medical facility. ■ Do not massage, rub, moisten, or expose affected area to extreme heat.	■ Keep feet clean and dry; change wer or damp socks as soon as possible. ■ Wet or damp socks should be dried as soon as possible to allow them to be re-used. ■ The inside of Vapor Barrier boots should be wiped dry once per day, or more often as feet sweat. ■ Dry leather boots by stuffing with paper towels.
		Frostbite	
Cause  ■ Freezing of tissue.	Symptoms  Numbness in affected	First-Aid Frostbite can lead to amputation! Evacuate	Prevention
■ Treezling or trasder, and other facial parts. ■ Exposure to bare skin on metal, extremely cool fuel and POL*, wind chill, and tight clothing particularly boots - can make the problem worse.	area. ■ Tingling, blistered, swollen, or tender areas. ■ Pale, yellowish, waxylooking skin (grayish in dark-skinned soldiers). ■ Frozen tissue that feels wooden to the touch.	immediately! ■ Start first-aid immediately. Warm affected area with direct body heat. ■ Do not thaw frozen areas if treatment will be delayed. ■ Do not massage or rub affected areas. ■ Do not wet the area or rub it with snow or ice. ■ Do not expose affected area to open fire, stove, or any other intense heat source.	■ Use contact gloves to handle all equipment; never use bare hands to handle equipment. ■ Use approved gloves to handle fuel and POL*. ■ Never wear cotton clothing in the col weather environment. ■ Keep face and ears covered and dry. ■ Keep socks clean and dry. ■ Avoid tight socks and boots.
Cause	Symptoms	Hypothermia First-Aid	Provention
Prolonged cold exposure and body-heat loss. May occur at temperatures well above freezing, especially when a person is wet.	Symptoms  Shivering may or may not be present. Drowsiness, mental slowness or lack of coordination. Can progress to unconsciousness, irregular heartbeat, and death.	■ This is the most serious cold exposure medical emergency and can lead to death! Get the soldier to a medical facility as soon as possible!  ■ Even if a victim is cold and is not breathing, never assume someone is dead until determined by medical authorities!  ■ Strip off wet clothing and wrap victim in blankets or a sleeping bag.  ■ Place another person in sleeping bag as an additional heat source.  ■ For the person with unconsciousness and very low heartbeat, minimize handling of the victim so as to not induce a heart attack.  Ical Considerations in the Cold Weather environm	Prevention ■ Never wear cotton clothing in the coloweather environment. ■ Anticipate the need for warming areas for soldiers exposed to cold, wet conditions.
	Additional Med	Dehydration	ent:
Cause	Symptoms	First-Aid	Prevention
■ Depletion of body fluids.	<ul><li>Dizziness.</li><li>Weakness.</li><li>Blurred vision.</li></ul>	■ Replace lost water. Water should be sipped, not gulped. ■ Get medical treatment.	At a minimum drink 3-6 quarts of fluid per day.
Causa	I Committee	Snow Blindness	Descention
Cause  Burning of the cornea of the eye by exposure to intense UV rays of the sun in a snow-covered environment.	Symptoms  Pain, red, watery or gritty feeling in the eyes.	First-Aid  Rest and total darkness; bandage eyes with gauze.  Evacuate if no improvement within 24 hours.	Prevention  ■ Use sunglasses with side protection in a snow-covered environment.  ■ If sunglasses are not available use improvised slit glasses.
		Carbon Monoxide Poisoning	1
Cause ■ Replacement of oxygen with carbon monoxide in the blood stream caused by burning fuels without proper ventilation.	Symptoms  Headache, confusion, dizziness, excessive yawning. Cherry red lips and mouth, grayish tint to lips and mouth (in darkskinned individuals).  Unconsciousness.	First-Aid  Move to fresh air. CPR if needed. Administer oxygen if available. Evacuate.	Prevention  ■ Use only Army-approved heaters in sleeping areas and ensure that personnel are properly licensed to operate the heaters.  ■ Never sleep in running vehicles.  ■ Always post a fire guard when operating a heater in sleeping areas.